

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM110218\  
 Data File : BM017490.D  
 Acq On : 02 Nov 2018 10:52  
 Operator : MJ/SJ  
 Sample : J5701-13MEDL 30X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A40G2MEDL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 7.640       | 784           | 791         | 804          | rBV      | 757534         | 1252996       | 2.67%           | 1.614%        |
| 2         | 10.410      | 1255          | 1262        | 1278         | rBV      | 1123513        | 1961698       | 4.18%           | 2.527%        |
| 3         | 13.710      | 1818          | 1823        | 1829         | rBV      | 64578          | 112000        | 0.24%           | 0.144%        |
| 4         | 13.975      | 1863          | 1868        | 1882         | rBV      | 82042          | 141802        | 0.30%           | 0.183%        |
| 5         | 14.280      | 1913          | 1920        | 1924         | rBV2     | 1610811        | 2708072       | 5.78%           | 3.488%        |
| 6         | 14.410      | 1939          | 1942        | 1949         | rVB2     | 40581          | 63312         | 0.14%           | 0.082%        |
| 7         | 15.127      | 2057          | 2064        | 2072         | rBV2     | 45307          | 70917         | 0.15%           | 0.091%        |
| 8         | 15.286      | 2086          | 2091        | 2096         | rBV      | 123905         | 188436        | 0.40%           | 0.243%        |
| 9         | 15.339      | 2096          | 2100        | 2111         | rVB3     | 51302          | 88916         | 0.19%           | 0.115%        |
| 10        | 15.498      | 2122          | 2127        | 2130         | rBV      | 39964          | 53922         | 0.12%           | 0.069%        |
| 11        | 15.545      | 2130          | 2135        | 2136         | rVV      | 678088         | 808354        | 1.72%           | 1.041%        |
| 12        | 15.574      | 2136          | 2140        | 2162         | rVB      | 2753024        | 3885149       | 8.29%           | 5.004%        |
| 13        | 15.880      | 2186          | 2192        | 2199         | rBV      | 1605312        | 2261436       | 4.82%           | 2.913%        |
| 14        | 15.986      | 2207          | 2210        | 2217         | rVB      | 38527          | 58544         | 0.12%           | 0.075%        |
| 15        | 16.157      | 2234          | 2239        | 2250         | rVB2     | 70833          | 119878        | 0.26%           | 0.154%        |
| 16        | 16.269      | 2250          | 2258        | 2267         | rBV      | 484742         | 752798        | 1.61%           | 0.970%        |
| 17        | 16.568      | 2303          | 2309        | 2314         | rBV      | 88203          | 119026        | 0.25%           | 0.153%        |
| 18        | 16.916      | 2361          | 2368        | 2371         | rBV      | 167735         | 241838        | 0.52%           | 0.312%        |
| 19        | 16.951      | 2371          | 2374        | 2381         | rVV      | 248286         | 326753        | 0.70%           | 0.421%        |
| 20        | 17.033      | 2382          | 2388        | 2401         | rVV2     | 2336277        | 3873928       | 8.26%           | 4.990%        |
| 21        | 17.139      | 2401          | 2406        | 2414         | rVV2     | 139981         | 268291        | 0.57%           | 0.346%        |
| 22        | 17.215      | 2414          | 2419        | 2426         | rVB3     | 172412         | 266036        | 0.57%           | 0.343%        |
| 23        | 17.492      | 2460          | 2466        | 2468         | rBV3     | 54170          | 69012         | 0.15%           | 0.089%        |
| 24        | 17.639      | 2484          | 2491        | 2506         | rBV2     | 483369         | 1030726       | 2.20%           | 1.328%        |
| 25        | 17.768      | 2506          | 2513        | 2520         | rVV2     | 187115         | 297174        | 0.63%           | 0.383%        |
| 26        | 17.892      | 2528          | 2534        | 2539         | rBV      | 110488         | 163929        | 0.35%           | 0.211%        |
| 27        | 18.110      | 2565          | 2571        | 2578         | rBV2     | 111430         | 164129        | 0.35%           | 0.211%        |
| 28        | 18.168      | 2578          | 2581        | 2585         | rVV      | 91442          | 118927        | 0.25%           | 0.153%        |
| 29        | 18.215      | 2585          | 2589        | 2595         | rVB3     | 95252          | 134701        | 0.29%           | 0.174%        |
| 30        | 18.398      | 2615          | 2620        | 2625         | rBV      | 86097          | 126028        | 0.27%           | 0.162%        |
| 31        | 18.510      | 2634          | 2639        | 2641         | rVV2     | 51735          | 77599         | 0.17%           | 0.100%        |
| 32        | 18.533      | 2641          | 2643        | 2647         | rVV      | 55725          | 76060         | 0.16%           | 0.098%        |
| 33        | 18.574      | 2647          | 2650        | 2655         | rVB2     | 79577          | 100172        | 0.21%           | 0.129%        |
| 34        | 18.939      | 2708          | 2712        | 2715         | rVV3     | 50948          | 75553         | 0.16%           | 0.097%        |

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Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40G2MEDL

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF Filtering: 5  
Sampling : 1 Min Area: 0.1 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |          |          |         |         |
|----|--------|------|------|------|------|----------|----------|---------|---------|
| 35 | 18.980 | 2716 | 2719 | 2724 | rVB3 | 38037    | 59739    | 0.13%   | 0.077%  |
| 36 | 19.439 | 2792 | 2797 | 2804 | rBV  | 180664   | 297414   | 0.63%   | 0.383%  |
| 37 | 20.951 | 3050 | 3054 | 3059 | rBV2 | 139586   | 186742   | 0.40%   | 0.241%  |
| 38 | 21.162 | 3085 | 3090 | 3095 | rBV  | 36580370 | 46886859 | 100.00% | 60.395% |
| 39 | 21.233 | 3097 | 3102 | 3115 | rVB  | 3194117  | 4413931  | 9.41%   | 5.686%  |
| 40 | 23.439 | 3471 | 3477 | 3492 | rVB2 | 1717396  | 3731246  | 7.96%   | 4.806%  |

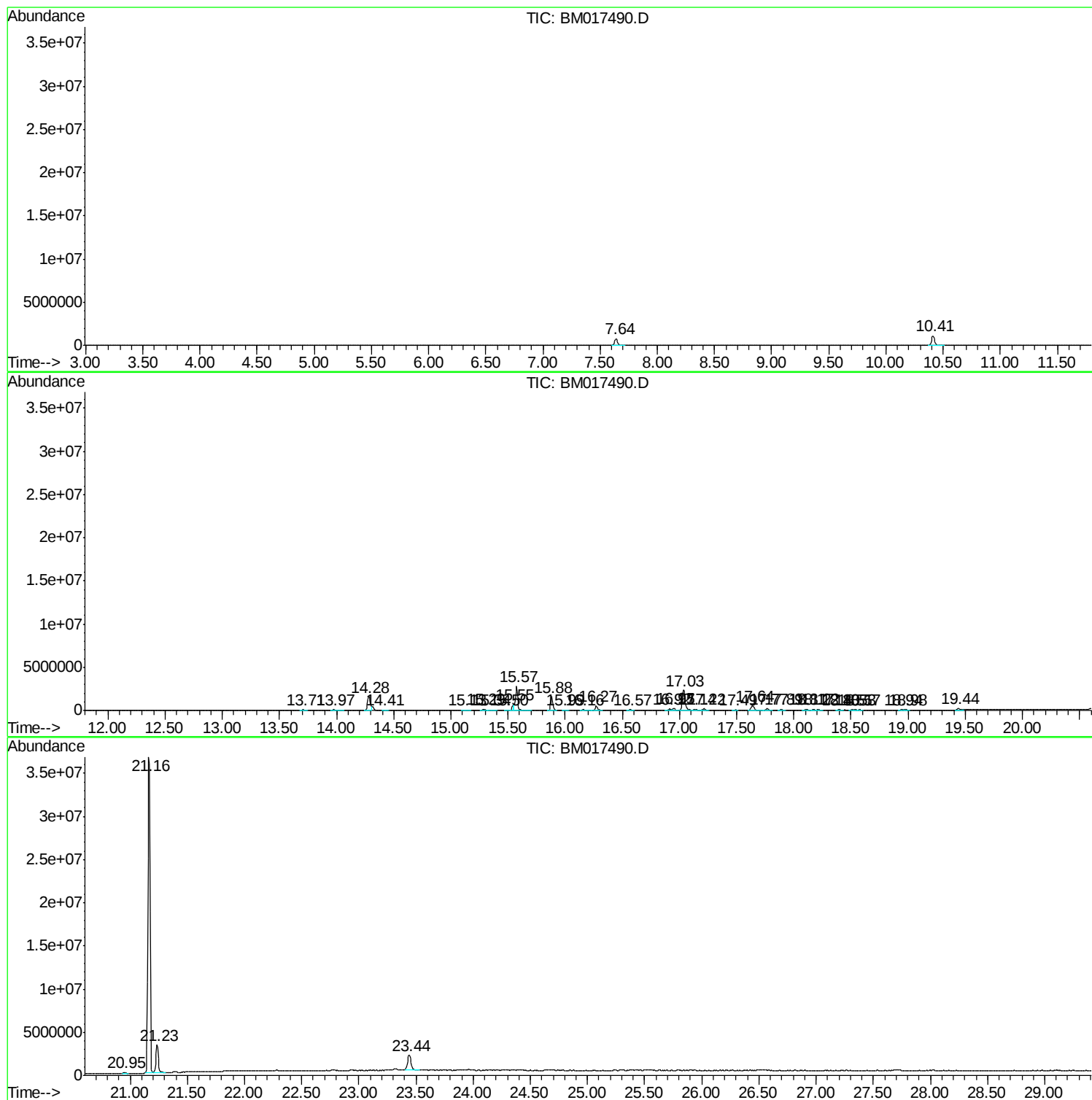
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Sample : J5701-13MEDL 30X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

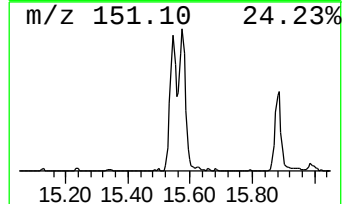
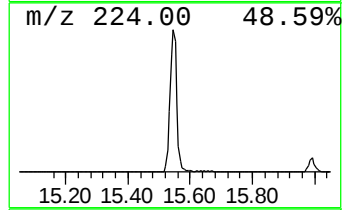
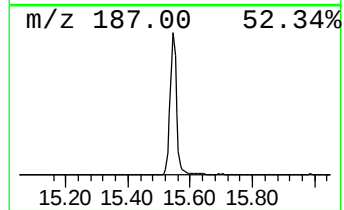
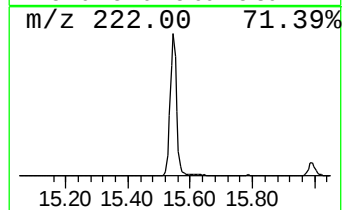
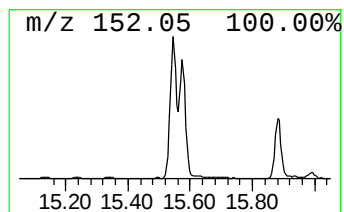
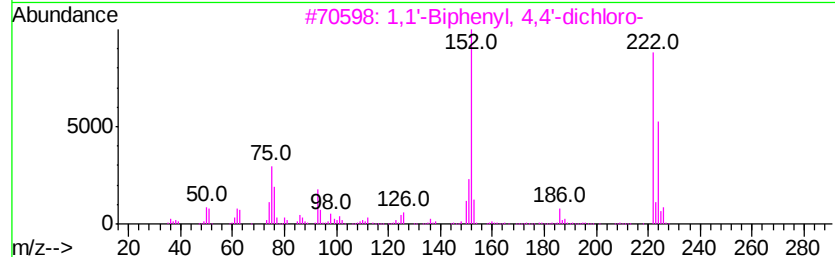
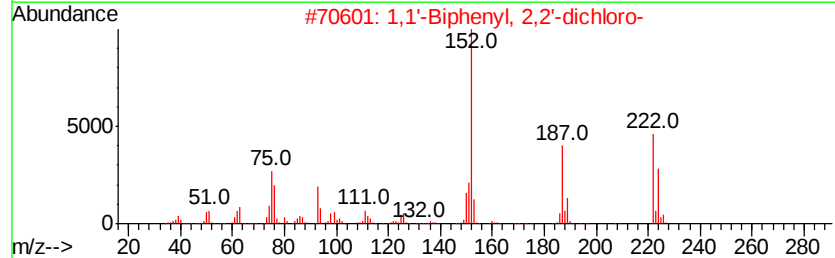
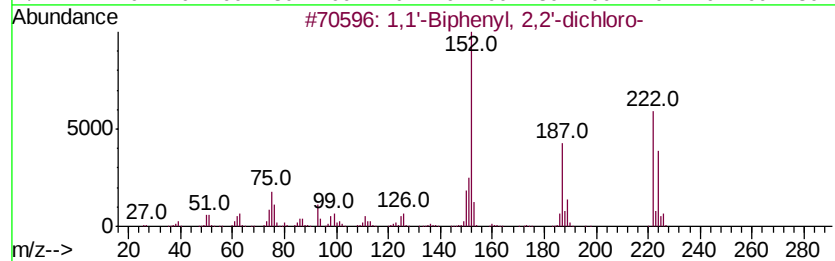
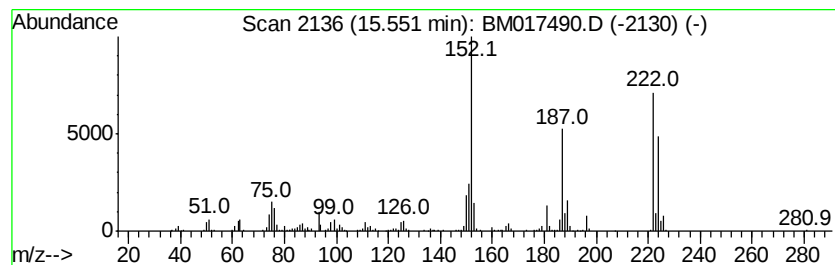
Instrument :  
BNA\_M  
ClientSampleId :  
A40G2MEDL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 1,1'-Biphenyl, 2,2'-dichloro- Concentration Rank 3

| R.T.  | EstConc    | Area       | Relative to ISTD |     | R.T.     |             |      |
|-------|------------|------------|------------------|-----|----------|-------------|------|
| 15.55 | 5.97 ng/ul | 808354     | Acenaphthene-d10 |     | 14.28    |             |      |
| Hit#  | of         | 5          | Tentative ID     | MW  | MolForm  | CAS#        | Qual |
| 1     | 1,1'       | -Biphenyl, | 2,2'-dichloro-   | 222 | C12H8Cl2 | 013029-08-8 | 99   |
| 2     | 1,1'       | -Biphenyl, | 2,2'-dichloro-   | 222 | C12H8Cl2 | 013029-08-8 | 99   |
| 3     | 1,1'       | -Biphenyl, | 4,4'-dichloro-   | 222 | C12H8Cl2 | 002050-68-2 | 98   |
| 4     | 1,1'       | -Biphenyl, | 2,3-dichloro-    | 222 | C12H8Cl2 | 016605-91-7 | 95   |
| 5     | 1,1'       | -Biphenyl, | 4,4'-dichloro-   | 222 | C12H8Cl2 | 002050-68-2 | 95   |



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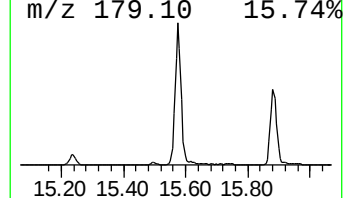
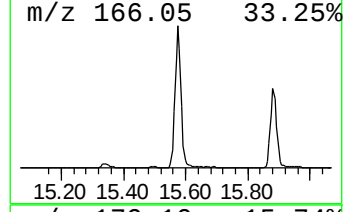
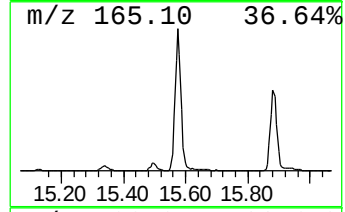
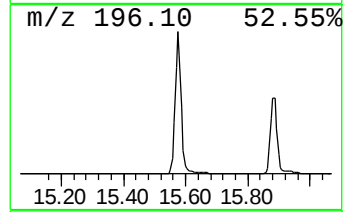
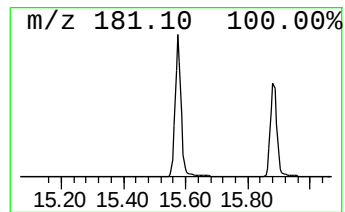
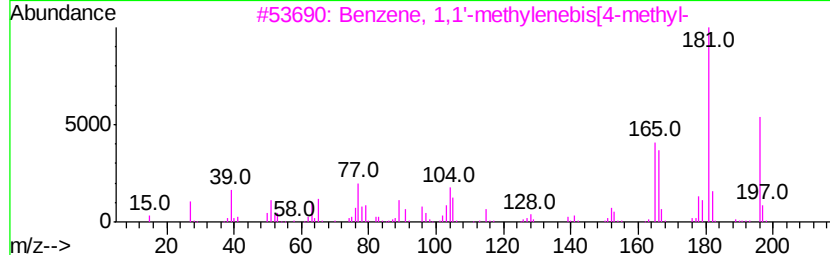
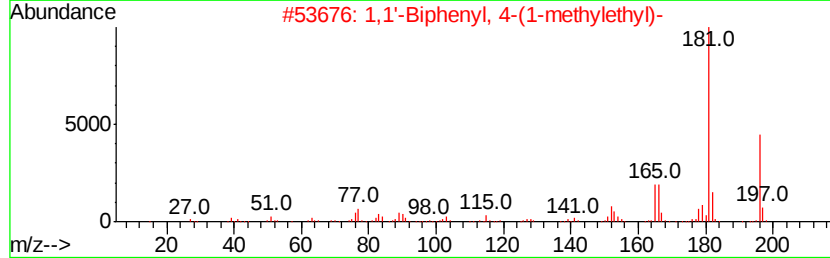
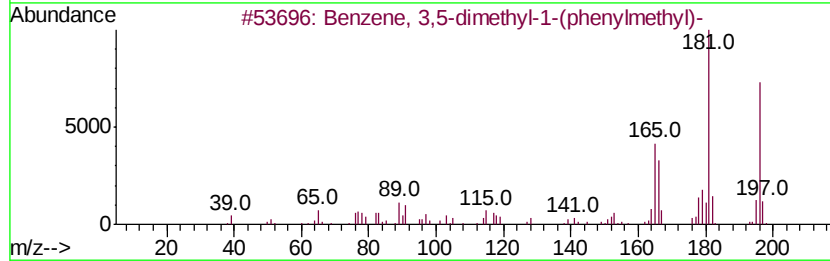
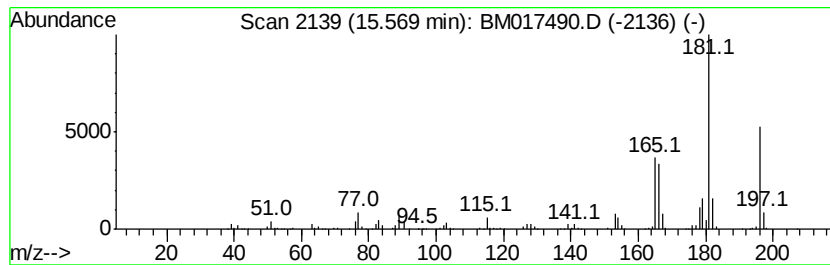
Instrument :  
BNA\_M  
ClientSampleId :  
A40G2MEDL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Benzene, 3,5-dimethyl-1-(ph... Concentration Rank 1

| R.T.    | EstConc     | Area                                | Relative to ISTD | R.T.           |
|---------|-------------|-------------------------------------|------------------|----------------|
| 15.57   | 28.69 ng/ul | 3885150                             | Acenaphthene-d10 | 14.28          |
| Hit# of | 5           | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |             | Benzene, 3,5-dimethyl-1-(phenylm... | 196 C15H16       | 028122-27-2 94 |
| 2       |             | 1,1'-Biphenyl, 4-(1-methylethyl)-   | 196 C15H16       | 007116-95-2 93 |
| 3       |             | Benzene, 1,1'-methylenebis[4-met... | 196 C15H16       | 004957-14-6 91 |
| 4       |             | Benzene, 1,2-dimethyl-4-(phenylm... | 196 C15H16       | 013540-56-2 91 |
| 5       |             | Benzene, 1-methyl-2-[(4-methylph... | 196 C15H16       | 021895-17-0 91 |



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Misc :  
ALS Vial : 6 Sample Multiplier: 1

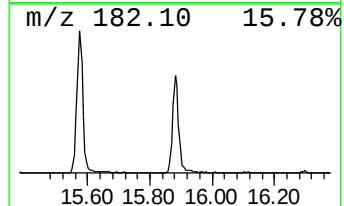
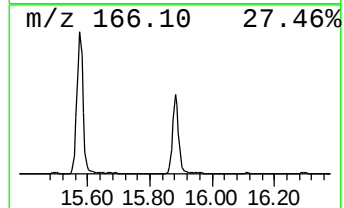
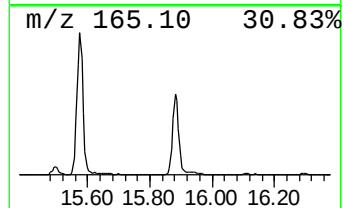
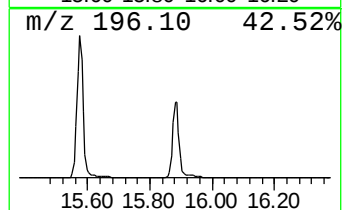
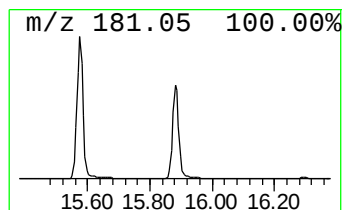
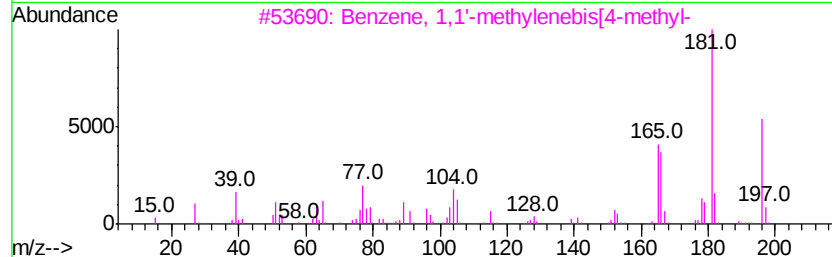
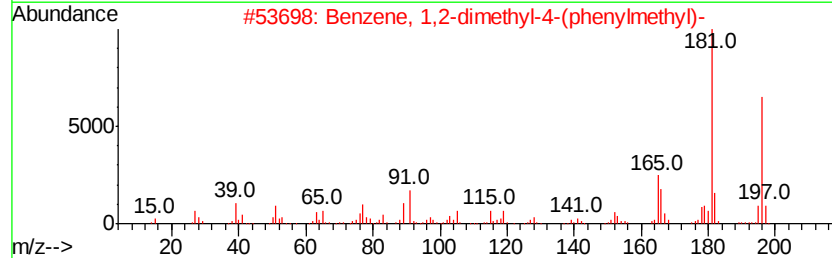
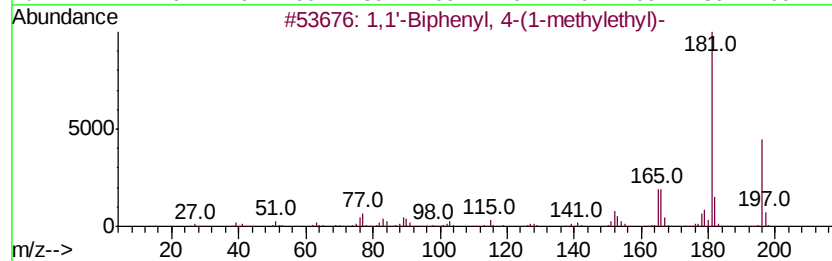
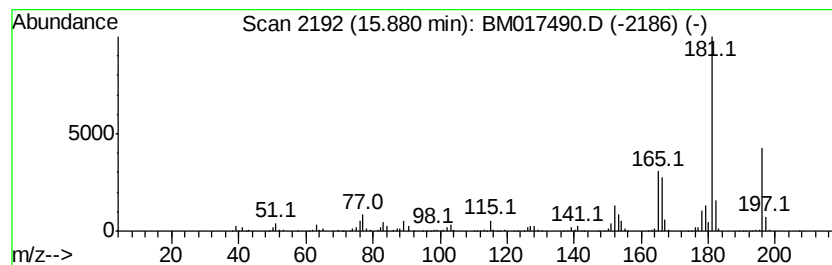
Instrument :  
BNA\_M  
ClientSampleId :  
A40G2MEDL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 1,1'-Biphenyl, 4-(1-methyle... Concentration Rank 2

| R.T.    | EstConc     | Area                                | Relative to ISTD | R.T.           |
|---------|-------------|-------------------------------------|------------------|----------------|
| 15.88   | 11.68 ng/ul | 2261440                             | Phenanthrene-d10 | 17.03          |
| Hit# of | 5           | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |             | 1,1'-Biphenyl, 4-(1-methylethyl)-   | 196 C15H16       | 007116-95-2 96 |
| 2       |             | Benzene, 1,2-dimethyl-4-(phenylm... | 196 C15H16       | 013540-56-2 94 |
| 3       |             | Benzene, 1,1'-methylenebis[4-met... | 196 C15H16       | 004957-14-6 94 |
| 4       |             | Benzene, 1,1'-methylenebis[4-met... | 196 C15H16       | 004957-14-6 91 |
| 5       |             | Benzene, 1-methyl-3-[(4-methylph... | 196 C15H16       | 021895-16-9 91 |



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BNA\_M  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

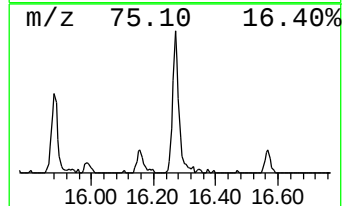
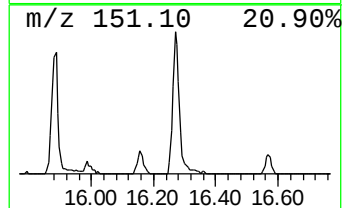
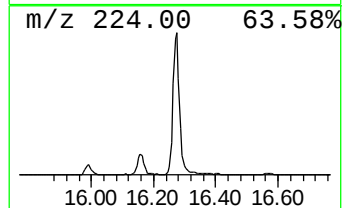
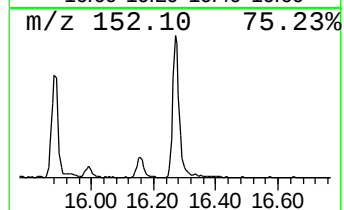
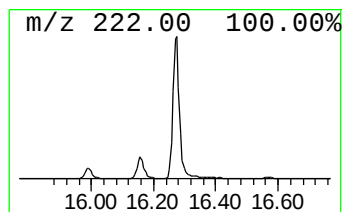
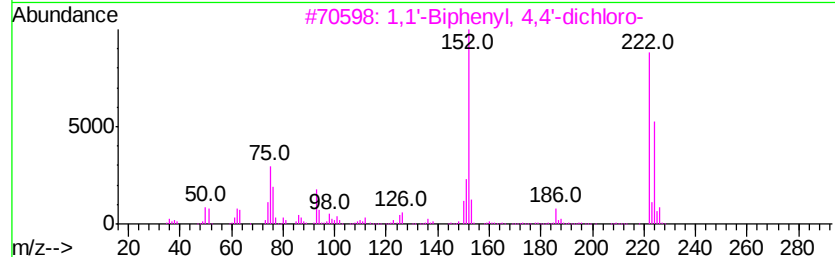
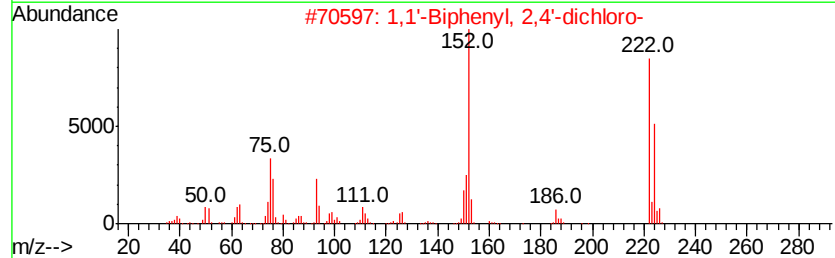
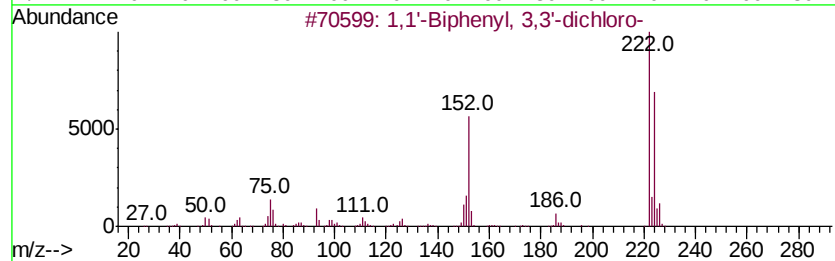
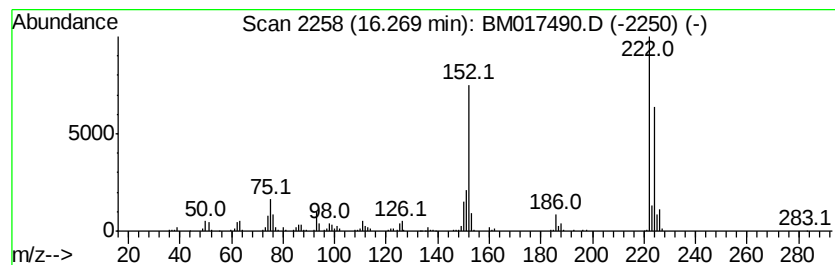
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 1,1'-Biphenyl, 3,3'-dichloro- Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.27 | 3.89 ng/ul | 752798 | Phenanthrene-d10 | 17.03 |

| Hit# | of | Tentative ID                  | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------|-----|----------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 3,3'-dichloro- | 222 | C12H8Cl2 | 002050-67-1 | 99   |
| 2    |    | 1,1'-Biphenyl, 2,4'-dichloro- | 222 | C12H8Cl2 | 034883-43-7 | 98   |
| 3    |    | 1,1'-Biphenyl, 4,4'-dichloro- | 222 | C12H8Cl2 | 002050-68-2 | 98   |
| 4    |    | 1,1'-Biphenyl, 4,4'-dichloro- | 222 | C12H8Cl2 | 002050-68-2 | 98   |
| 5    |    | 1,1'-Biphenyl, 2,4-dichloro-  | 222 | C12H8Cl2 | 033284-50-3 | 98   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM110218\  
Data File : BM017490.D  
Acq On : 02 Nov 2018 10:52  
Operator : MJ/SJ  
Sample : J5701-13MEDL 30X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

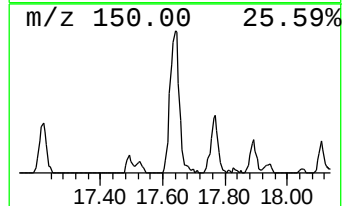
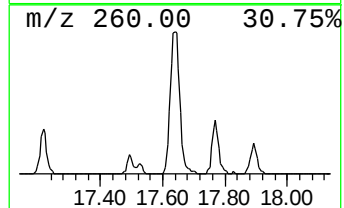
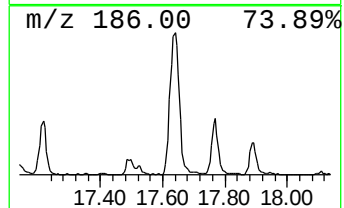
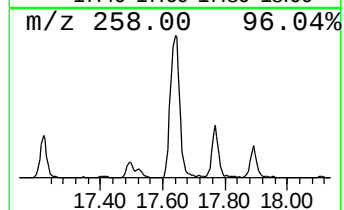
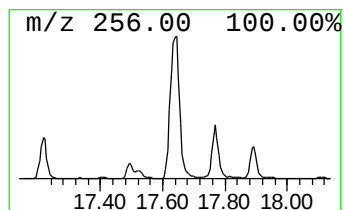
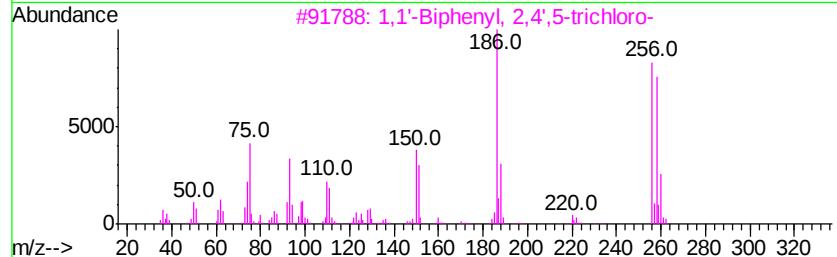
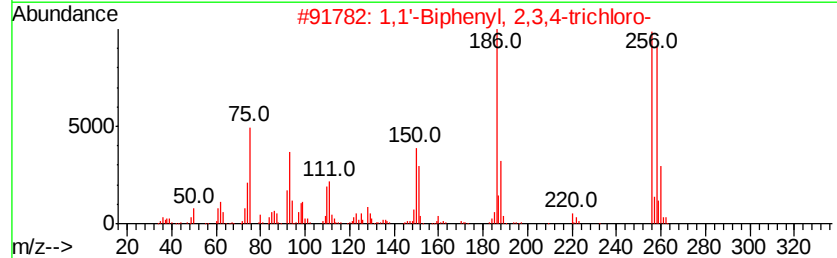
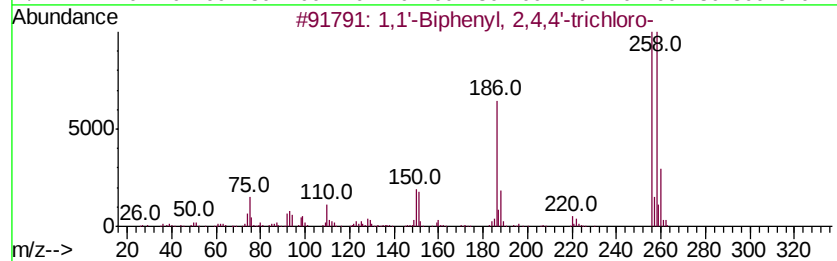
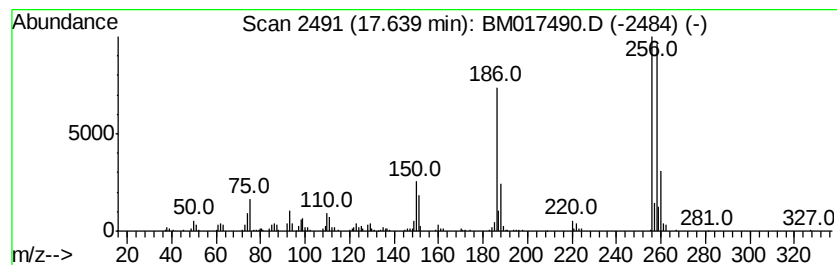
Instrument :  
BNA\_M  
ClientSampleId :  
A40G2MEDL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 1,1'-Biphenyl, 2,4,4'-trich... Concentration Rank 4

| R.T.      | EstConc                          | Area    | Relative to ISTD | R.T.        |      |
|-----------|----------------------------------|---------|------------------|-------------|------|
| 17.64     | 5.32 ng/ul                       | 1030730 | Phenanthrene-d10 | 17.03       |      |
| Hit# of 5 | Tentative ID                     | MW      | MolForm          | CAS#        | Qual |
| 1         | 1,1'-Biphenyl, 2,4,4'-trichloro- | 256     | C12H7Cl3         | 007012-37-5 | 99   |
| 2         | 1,1'-Biphenyl, 2,3,4-trichloro-  | 256     | C12H7Cl3         | 055702-46-0 | 99   |
| 3         | 1,1'-Biphenyl, 2,4',5-trichloro- | 256     | C12H7Cl3         | 016606-02-3 | 99   |
| 4         | 1,1'-Biphenyl, 2,4,5-trichloro-  | 256     | C12H7Cl3         | 015862-07-4 | 99   |
| 5         | 1,1'-Biphenyl, 2,3,4'-Trichloro- | 256     | C12H7Cl3         | 038444-85-8 | 99   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM110218\  
Data File : BM017490.D  
Acq On : 02 Nov 2018 10:52  
Operator : MJ/SJ  
Sample : J5701-13MEDL 30X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A40G2MEDL

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM102418MA.M  
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 1,1'-Biphenyl, 2,... | 15.55 | 6.0     | ng/ul | 808354   | 3                     | 14.28 | 2708070 | 20.0 |
| Benzene, 3,5-dime... | 15.57 | 28.7    | ng/ul | 3885150  | 3                     | 14.28 | 2708070 | 20.0 |
| 1,1'-Biphenyl, 4-... | 15.88 | 11.7    | ng/ul | 2261440  | 4                     | 17.03 | 3873930 | 20.0 |
| 1,1'-Biphenyl, 3,... | 16.27 | 3.9     | ng/ul | 752798   | 4                     | 17.03 | 3873930 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.64 | 5.3     | ng/ul | 1030730  | 4                     | 17.03 | 3873930 | 20.0 |